

Title (en)
Process for the preparation of purine compounds and intermediates therefor.

Title (de)
Verfahren zur Herstellung von Purinverbindungen und Zwischenverbindungen dafür.

Title (fr)
Procédé pour la préparation de dérivés de purine et leurs intermédiaires.

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Application
EP 88309711 A 19881017

Priority
GB 8724765 A 19871022

Abstract (en)
A process for the preparation of compounds of formula (I), and pharmaceutically acceptable salts thereof: <CHEM> wherein R1 is hydrogen or CH2OH; R2 is hydrogen or, (when R1 is hydrogen), hydroxy or CH2OH; R3 is CH2OH or, (when R1 and R2 are both hydrogen), CH(OH)CH2OH; R4 is hydrogen, hydroxy, amino or OR5 wherein R5 is C1-6 alkyl, phenyl or phenyl C1-2 alkyl either of which phenyl moieties may be substituted by one or two halo, C1-4 alkyl or C1-4 alkoxy groups; and in which any OH groups in R1, R2 and/or R3 may be in the form of O-acyl, phosphate, cyclic acetal or cyclic carbonate derivatives thereof; which process comprises the reaction of a compound of formula (II): <CHEM> wherein R4 min is R4 or a group or atom convertible thereto and Rx is amino or protected amino; with a compound of formula (III): R3 min CHR2 min CHR1 min Q (III) wherein Q is a leaving group and R1 min , R2 min and R3 min are R1, R2 and R3 respectively or R1, R2 and/or R3 wherein the OH group(s) is/are in protected form; and thereafter converting R4 min when other than R4, to an R4 moiety or converting R4 min , when R4 to other R4; if necessary converting R1', R2' or R3' to R1, R1 and R3 respectively and optionally forming a pharmaceutically acceptable salt, O-acyl, phosphate, cyclic acetal or cyclic carbonate derivative thereof.

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